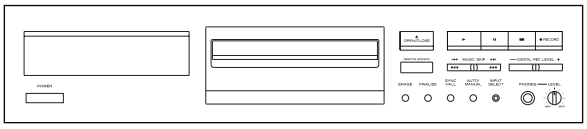
TEAC



SERVICE MANUAL

CD-RW880

CD-RW PLAYER/RECORDER

COMPACT disc DIGITAL AUDIO

NOTES

- PC board shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. they must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.

CONTENTS

1 SAFETY INFORMATION 2
2 SPECIFICATIONS 3
3 EXPLODED VIEW AND PARTS LIST 4
4 PC BOARDS AND PARTS LISTS 7
5 WIRING DIAGRAM 13
6 INCLUDED ACCESSORIES 15

1 SAFETY INFORMATION

SAFETY INFORMATION

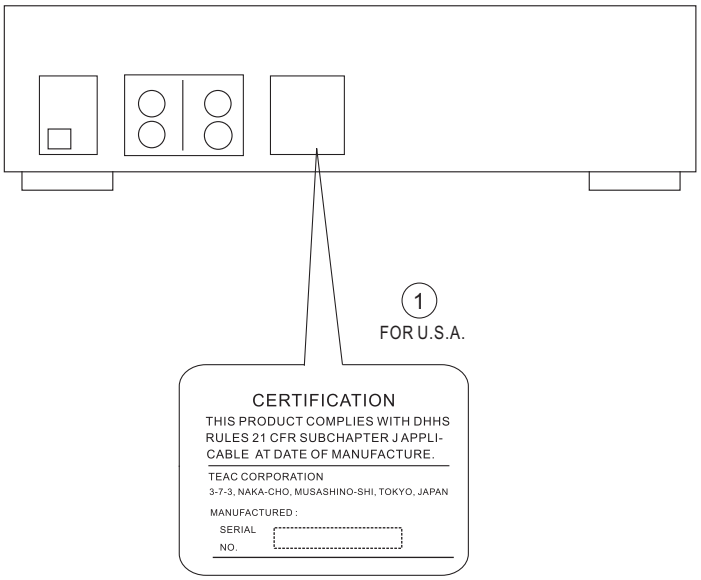
This product has been designed and manufactured according to FDA regulations " title 21, CFR, chapter 1,subchapter J,based on The Radiation Control for Health and Safety Act of 1968" and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is shown ①.

• CAUTION

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT REMOVE THE PROTECTIVE HOUSING USING SCREWDRIVER.

IF THIS PRODUCT DEVELOPS TROUBLE, MAKE A CONTACT WITH OUR SERICEMAN, AND DO NOT USE THE PRODUCT A TROUBLED STATE.



Optical pickup:		
Type	:	SF-W36FR
Manufacturer	:	SANYO ELECTRIC CO.,LTD.
Laser output	:	Less than 1 mW (Play) on the objective lens Less than 5 mW (Record) on the objective lens Less than 10 mW (Erase) on the objective lens
Wavelength	:	783 nm

2 SPECIFICATIONS

Media type	CD-RW and CD-R for Digital audio (record and playback) CD (playback only)
Frequency converter input sampling frequency	32 kHz, 48 kHz
Recording sampling frequency	44.1 kHz
Frequency response	20 Hz to 20 kHz (playback: +/- 1.5dB, recording: +/- 1.5dB)
Signal to noise ratio	90 dB (playback) 90 dB (digital recording) 82 dB (analog recording)
Dynamic range	86 dB (playback) 84 dB (recording)
Total Harmonic Distortion	Less than 0.05% (playback) Less than 0.05% (recording)
Wow & flutter	Unmeasurable
Audio Input Sensitivity/Impedance	LINE: -6 dB (0.5V)/20 kohm
Output Level/Impedance	LINE: -6 dB (0.5V)/1 kohm
Maximum output level	LINE: +6 dBV (2.0V)

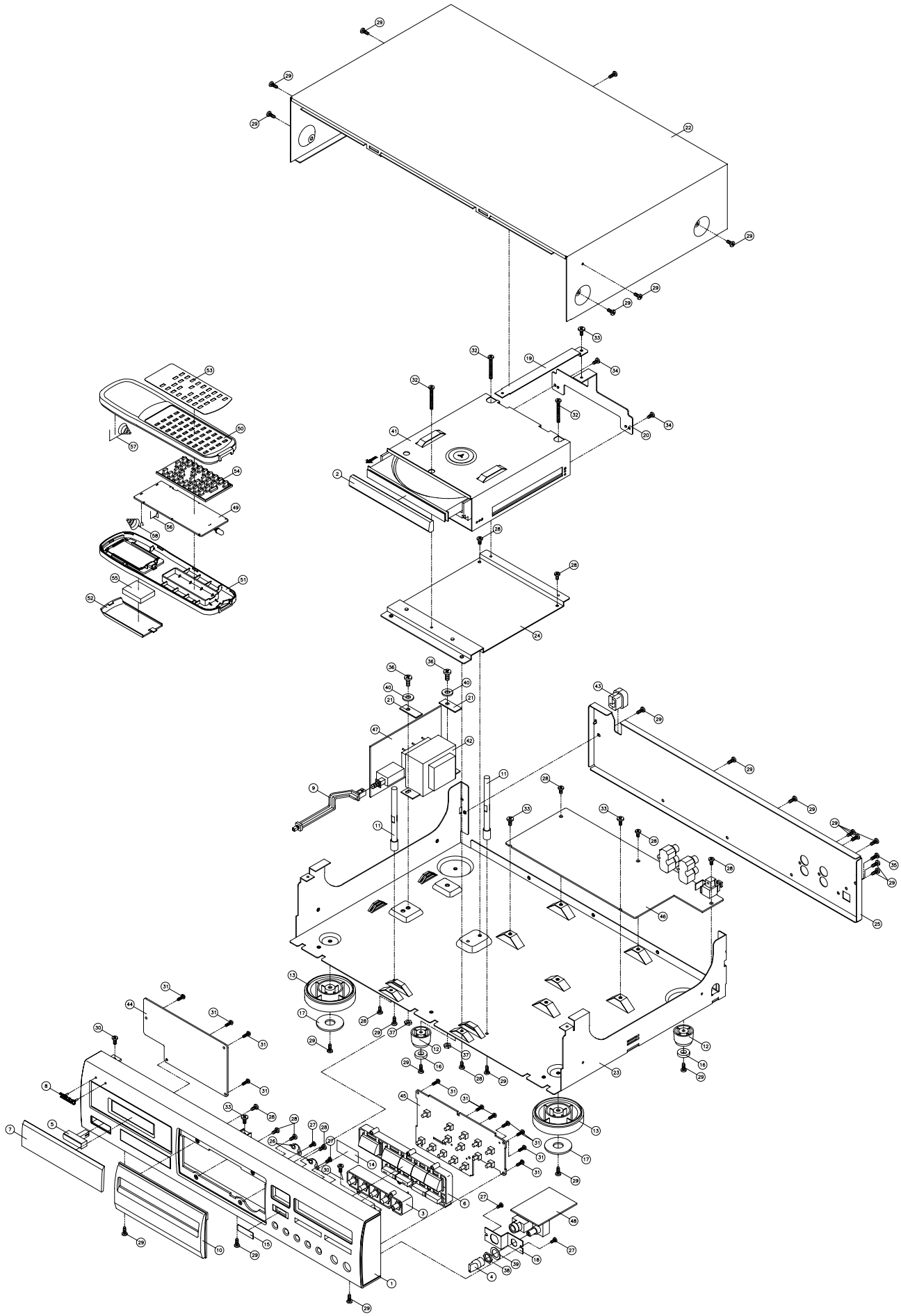
Power Requirements:	120V AC,60Hz
Power Consumption:	16 W
Dimension (W x H x D):	435 x 100 x 295 mm
Weight: (net)	4.5 kg

Standard Accessories:
RCA cable x 2
Optical digital cable x 1
Remote control unit x 1
Battery (AA, R6, SUM-3) x 2
Owner's manual x 1
Warranty card x 1

- Design and specifications are subject to change without notice.
- Illustrations may differ slightly from production models.
- Weight and dimensions are approximate.

3 EXPLODED VIEWS AND PARTSLIST

EXPLODED VIEW-1



EXPLODED VIEW-1

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
1-1	56-12C11203B010	ESCUTCHEON	
1-2	56-14RW8800B010	DECORATION TRAY	
1-3	56-54C11200B000	CD KNOB REPEAT - 5KEYS	
1-4	56-54C11202B000	KNOB LEVEL	
1-5	56-54C11203B000	KNOB POWER	
1-6	56-54RW8800B010	BUTTON PLAY	
1-7	56-57C112002010	WINDOW	
1-8	56-58EX0M18020	LOGO BADGE	
1-9	56-60C11200B000	POWER KNOB JOINT	
1-10	56-66C11200B020	PANEL TRAY	
1-11	56-79C11200B000	POST	
1-12	56-88C11200B000	LEG - REAR	
1-13	56-88RW2800A000	LEG - FRONT	
1-14	56-08C144000020	SHEET - IR	
1-15	56-33C112000020	REMOTE LENS	
1-16	56-193132650020	FELT DIA 13.5x6.5x3MM	
1-17	56-263303110020	RUBBER FOOT (2)	
1-18	61-11C112000020	MOUNTING BRACKET	
1-19	61-11C112010023	ESCUTCHEON FIT METAL PLATE	
1-20	61-11RW88000020	BRACKET MECHANISM	
1-21	61-11RW88000121	POWER PLATE 25 x10x1.2MM	
1-22	61-30C112000020	COVER	
1-23	61-31C112000022	CHASSIS	
1-24	61-31RW88000020	SUB CHASSIS	
1-25	61-33RW88000020	REAR PANEL	
1-26	61-87C145000020	LUG	
1-27	66-150226160223	HARDEN SCREW BTTB 2.6x6MM	
1-28	66-150230160223	HARDEN SCREW BTTB 3x6MM	
1-29	66-150230180123	HARDEN SCREW BTTB 3x8MM (BLK)	
1-30	66-150230180223	HARDEN SCREW BTTB 3x8MM	
1-31	66-151226180223	HARDEN SCREW BTTV 2.6x8MM	
1-32	66-151230230223	HARDEN SCREW PTTV 3x30MM	
1-33	66-151430160223	HARDEN SCREW BTTN 3x6MM	
1-34	66-170230160321	HARDEN SCREW TT/BH 3x6MM	
1-35	66-170230180123	HARDEN SCREW BIN+SW STTB 3x8MM (BLK)	
1-36	66-170240210123	HARDEN SCREW STTB 4x10MM AB	
1-37	67-021400000020	NUT M4MM	
1-38	67-021900000020	NUT M9MM	
1-39	68-112923140400	METAL WASHER 9.2x14x0.4mm	
1-40	68-113122551500	METAL WASHER 12x5.5x1.54mm	

CD-RW880

EXPLODED VIEW-1

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
1-41		02-20GF35000000	CD MECHANISM ASSY	
1-42	⚠	18-408RW8800120	TRANSFORMER EI57	
1-43		43-500000003020	AC CORD BUSHING	
1-44		05-04RW88000000	DISPLAY PCB ASSY	
1-45		05-05RW88000000	KEY PCB ASSY	
1-46		05-07RW88000000	IN OUT PCB ASSY	
1-47		05-07RW88000010	POWER PCB ASSY	
1-48		05-09RW88000000	HEADPHONE PCB ASSY	
1-49		05-13RW88000000	REMOTE PCB ASSY	
1-50		56-43X20010B000	REMOTE TOP CABINET	
1-51		56-43X20011B000	REMOTE BOTTOM CABINET	
1-52		56-44X20010B000	REMOTE BATTERY DOOR	
1-53		57-33RW88000020	REMOTE PLATE	
1-54		58-23X200000121	RUBBER PAD - 40KEY	
1-55		58-82A150000120	SPONGE 28x22x6MM	
1-56		61-26X200000020	BATTERY CONTACT SPRING (+)	
1-57		61-26X200010020	BATTERY CONTRACT SPRING (+/-)	
1-58		61-26X200020020	BATTERY CONTACT SPRING (-)	

4 PC BOARDS AND PARTS LIST

IN OUT PCB ASSY

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
		05-07RW88000000	IN OUT PCB ASSY	
		48-07RW88000120	IN OUT PCB	
C71	⚠	26-017470750121	E.CAP 4700UF/16V	
C75	⚠	26-017470850121	E.CAP 4700UF/25V	
CN1		43-012100217120	F.F.C. WAFER 1MM 17P	
CN2		43-0122001430120	WAFER 2MM 4P	
CN3		43-012200130120	WAFER 2MM 3P	
CN4		43-012200150120	WAFER 2MM 5P	
CN5		43-012250170120	WAFER 2.5MM 7P	
CN6		43-012200160120	WAFER 2MM 6P	
CN7		43-012200214120	WAFER 2MM 14P	
CN10		43-012100190120	F.F.C. WAFER 1MM 9P	
D1-8	⚠	12-RL2020000021	RECTIFIER DIODE RL-202	
D9		12-1N4001000021	RECTIFIER DIODE 1N4001	
D10		12-012300330121	ZENER DIODE 30V 1W	
D11		12-011560320125	ZENER DIODE 5.6V 1/2W	
D12		12-012100320125	ZENER DIODE 10V 1/2W	
F1,2	⚠	46-034900400000	PTC RESETTABLE FUSE 0.9A/90V	
F3,4	⚠	46-034200400000	PTC RESETTABLE FUSE 0.2A/90V	
JK1		17-07GP1F000110	CONVERTOR #GP1FA550RZ/3RZ	
JK2,3		43-451200004020	V/RCA JACK 2P #PJB-21V05	
L2,3,4,5		38-013100050020	AXIAL INDUCTOR 10UH	
Q1		11-9015C0000021	TR - 9015C	
Q2,3,4		11-2SD1936T0125	TR - 2SD1936T	
Q10		11-8050C0000025	TR - 8050C	
U2		16-NJM2068D0021	IC - NJM2068D	
U5		16-KA7805000121	IC - KA7805E	
U6		16-KA7808000221	IC - LA7808E	

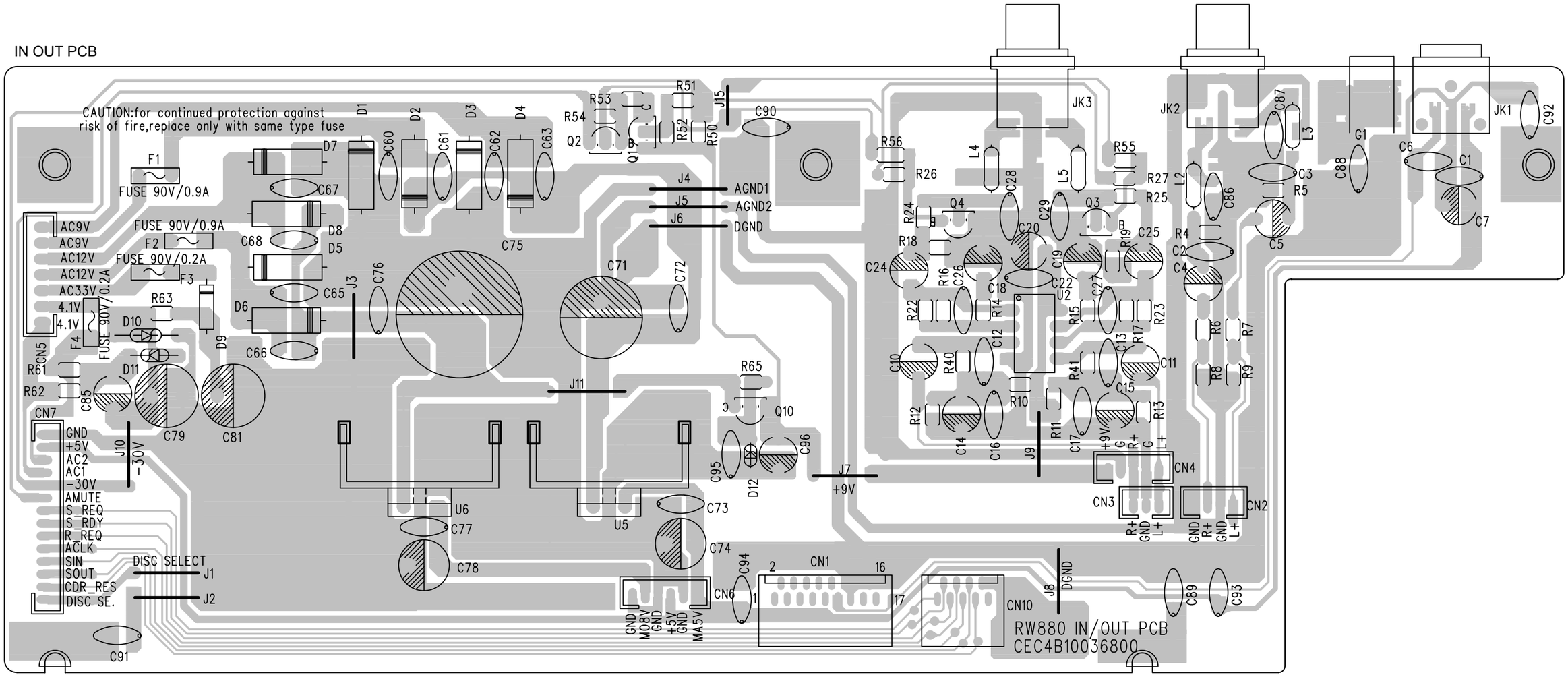
HEADPHONE PCB ASSY

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	05-09RW88000000	HEADPHONE PCB ASSY	
	48-09RW88000120	HEADPHONE PCB	
CN9	43-012200150120	WAFER 2MM 5P	
JK4	43-431640000020	PH JACK 6.4MM	
L6,7	38-013330050020	AXIAL INDUCTOR 33UH	
U3	16-NJM2068D0021	IC - NJM2068D	

POWER PCB ASSY

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
		05-07RW88000000	POWER PCB ASSY	
		48-07RW88000220	POWER PCB	
	⚠	18-408RW8800120	TRANSFORMER EI57	
CN101		43-012250170120	WAFER 2.5MM 7P	
SW101		41-191120020010	POWER SWITCH #SY16-12-1	

IN OUT PCB



HEADPHONE PCB

POWER PCB

DISPLAY PCB ASSY

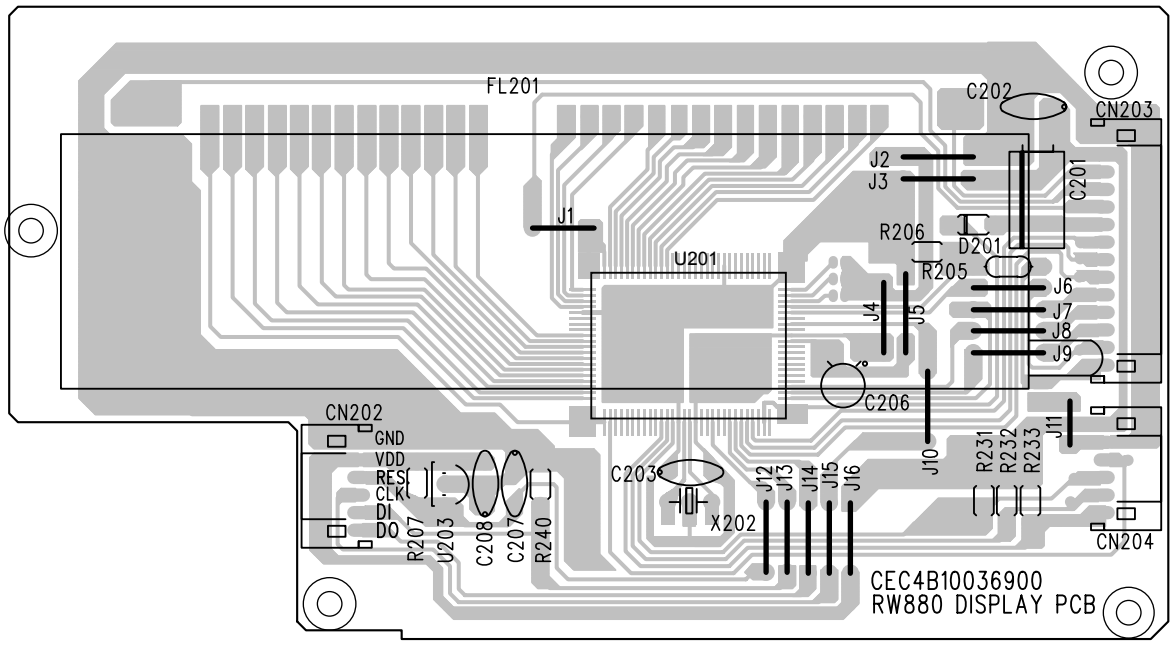
REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	05-04RW88000000	DISPLAY PCB ASSY	
	48-04RW88000220	DISPLAY PCB	
CN202	43-022200160120	WAFER 2MM 6P	
D201	12-1SS133T77021	SWITCHING DIODE 1SS133-T-77	
FL201	13-06RW88000020	VFD DISPLAY	
U201	16-LC876A48C021	IC - LC876A48C-57G5	
U203	16-PST600D00021	IC - PST600D	
X202	31-048100000220	RESONATOR 10MHZ	

KEY PCB ASSY

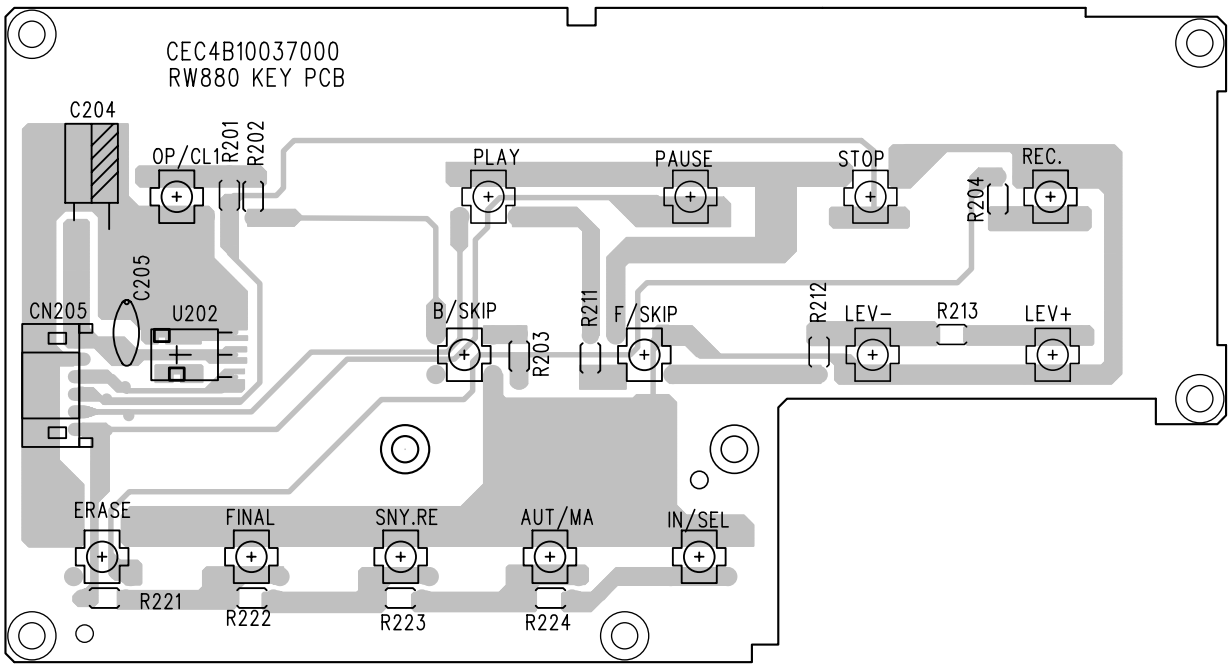
REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	05-05RW88000000	KEY PCB ASSY	
	48-05RW88000220	KEY PCB	
CN205	43-022200160120	WAFER 2MM 6P	
SW201-205,211, SW212-214,221-225	41-150010020020	TACT SWITCH 6x6MM	
U202	17-05GP10000110	OPTIC SENSER #GP1UM271XK	

CD-RW880

DISPLAY PCB



KEY PCB

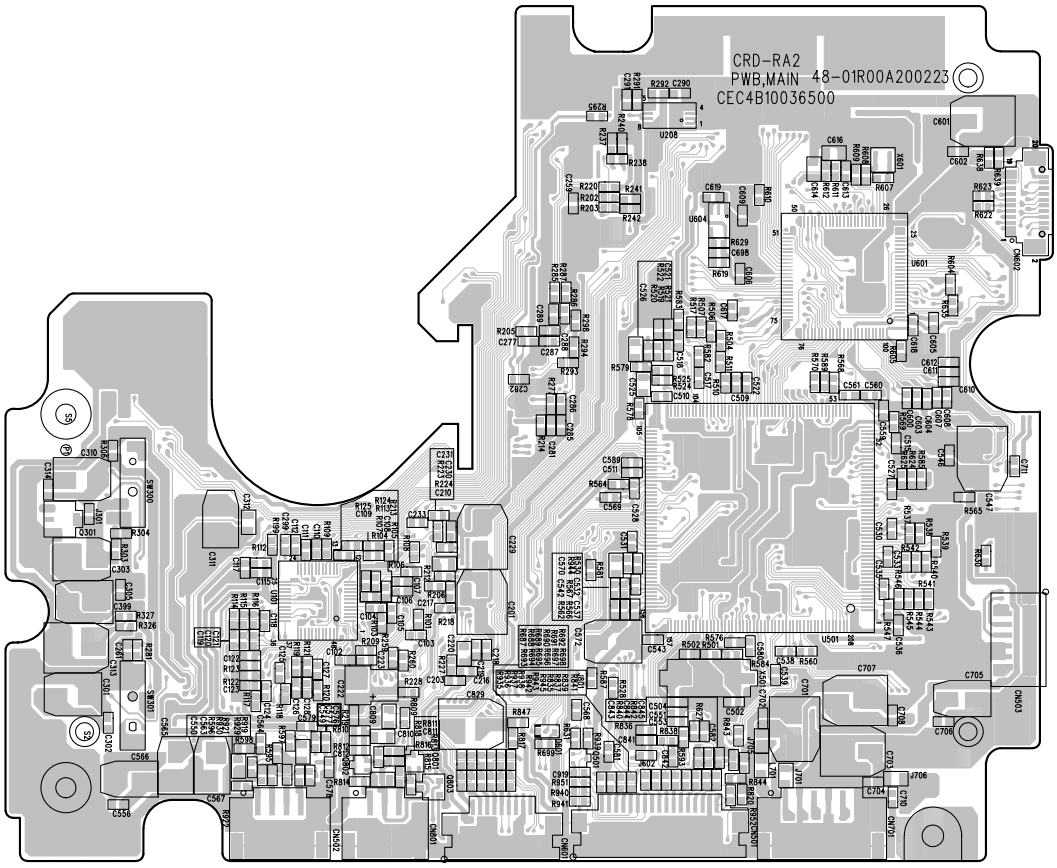


POWER MAIN PCB(CD MECHANISM ASSY)

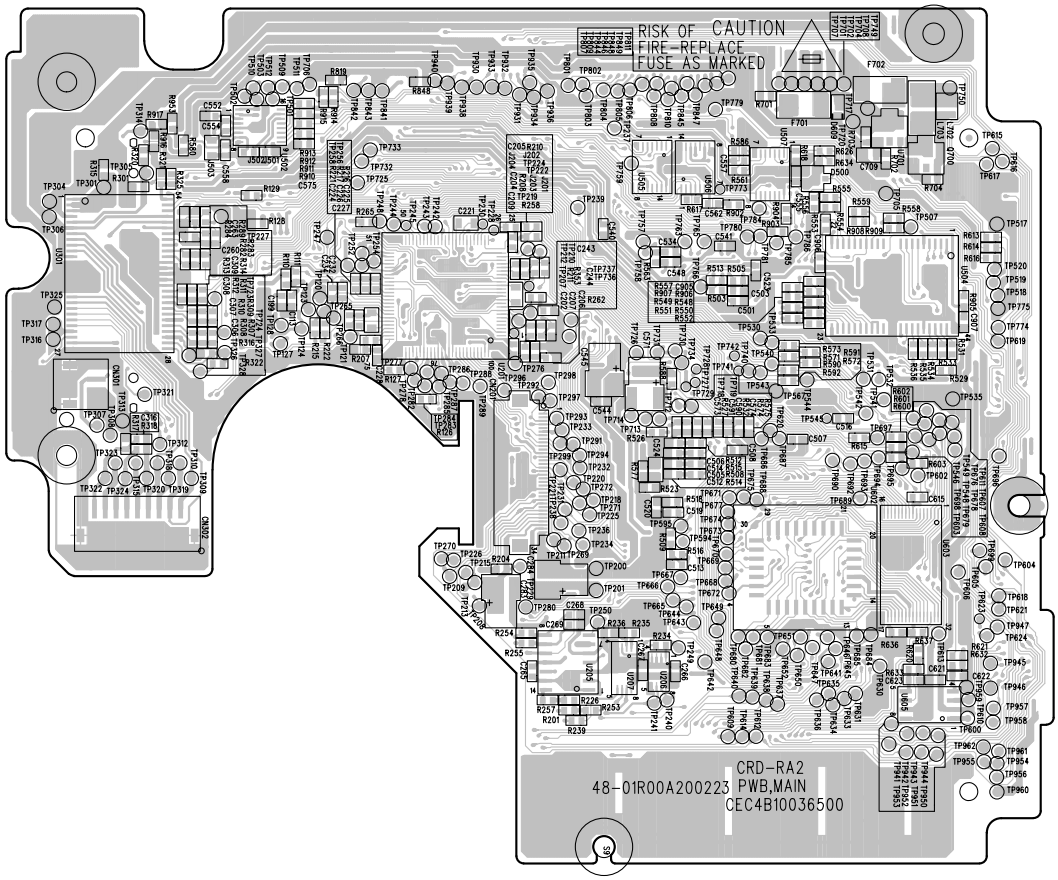
REF. NO		PARTS NO.	DESCRIPTION	REMARKS
		05-01RA00200020	POWER MAIN PCB (CD MECHANISM ASSY)	
		48-01R00A200223	POWER MAIN PCB	
CN201		43-011500234120	SMD WAFER 0.5MM 34P	
CN301		43-022150120520	SMD WAFER 1.5MM 2P	
CN302		43-022150190520	SMD WAFER 1.5MM 9P	
CN501		43-012100217530	SMD FFC.WAFER 1MM 17P	
CN502		43-022200140520	SMD WAFER 2MM 4P	
CN503		43-022150160520	SMD WAFER 1.5MM 6P	
CN601		43-012100190530	SMD FFC.WAFER 1MM 9P	
CN602		43-021800220520	SMD WAFER 0.8MM 20P	
CN701		73-022200160520	SMD WAFER 2MM 6P	
CN801		43-022200130520	SMD WAFER 2MM 3P	
D500		12-DAN217000021	DIODE - DAN217	
D601		12-011510320521	SMD ZENER DIODE - 5.1V	
D609		12-011560320511	SMD ZENER DIODE - 5.6V	
F701,702	⚠	46-125200200010	SMT FUSE 6125T-2A 125V	
Q301,700		11-2SB113200021	SMD TR - 2SB1132	
Q801,802		11-2SC455570021	SMD TR - 2SC4555-7	
Q803		11-DTA124EK0021	SMD TR - DTA124EKA	
U101		16-BH3802KV0021	IC - BH3802KV	
U201		16-AK8567000021	IC - AK8567	
U205		16-AD8402AR0021	IC - AD8402AR10	
U206		16-TC4W53FU0021	IC - TC4W53FU	
U207,208		16-NJM3404A0021	IC - NJM3404AV	
U301		16-BA5960FS0021	IC - BA5960FS	
U501		16-LC8958700021	IC - LC89587	
U502		16-AK5353VT0021	IC - AK5353VT	
U504		16-M54160000021	IC - MSM5416258B	
U505		16-TC74VHC00021	IC - TC74VHC08FT	
U506		16-TC74VHC30021	IC - TC74VHC32FT	
U507		16-TC74VHC10021	IC - TC74VHV14FT	
U601		16-TMP95C260021	IC - TMP95C265F	
U602		16-EN29F0020021	IC -EN29F002ANT	
U604		16-PST597EN0021	IC - PST597ENR	
U605		16-BR9080AF0021	IC - BR9080AF	
U701		16-M5237ML00021	IC - M5237ML	
SW300,301		41-061120100020	LEAF SWITCH	
X501		31-018338600115	CRYSTAL 33.8688MHZ	
X601		31-048225701415	CRYSTAL 22.57MHZ	

CD-RW880

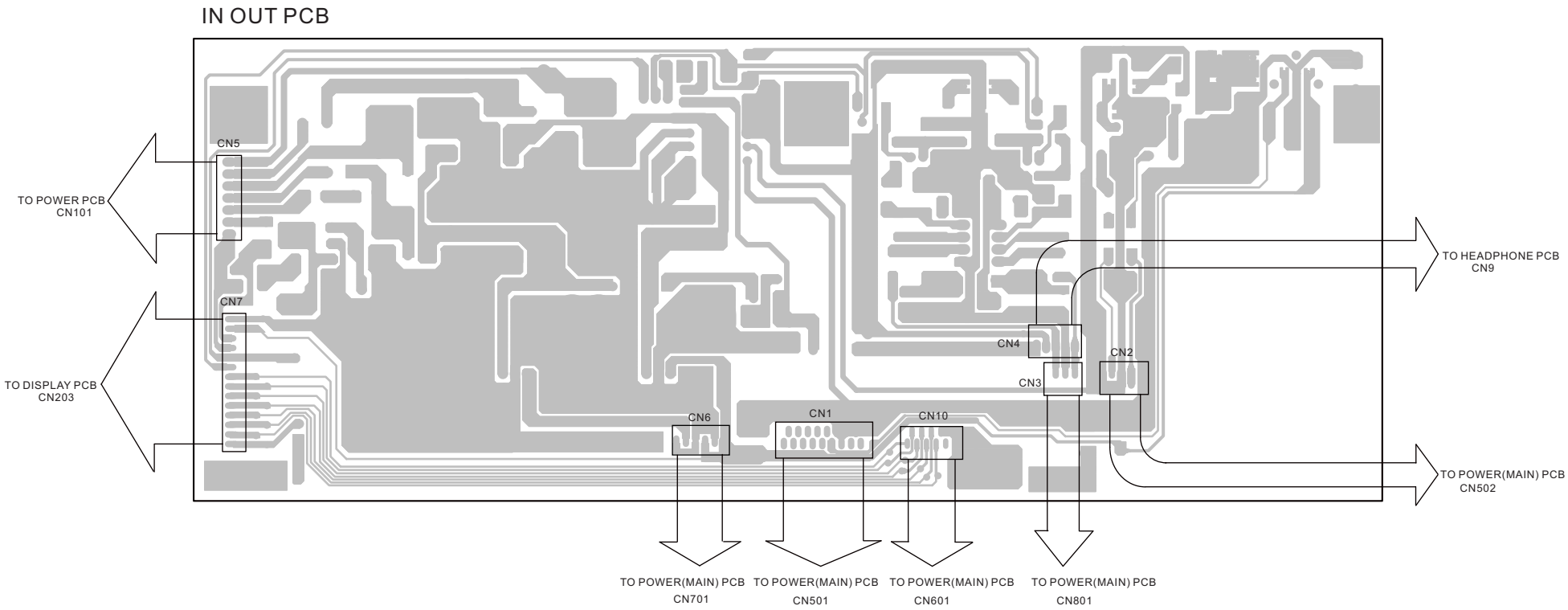
POWER MAIN PCB (CD MECHANISM ASSY) - TOP



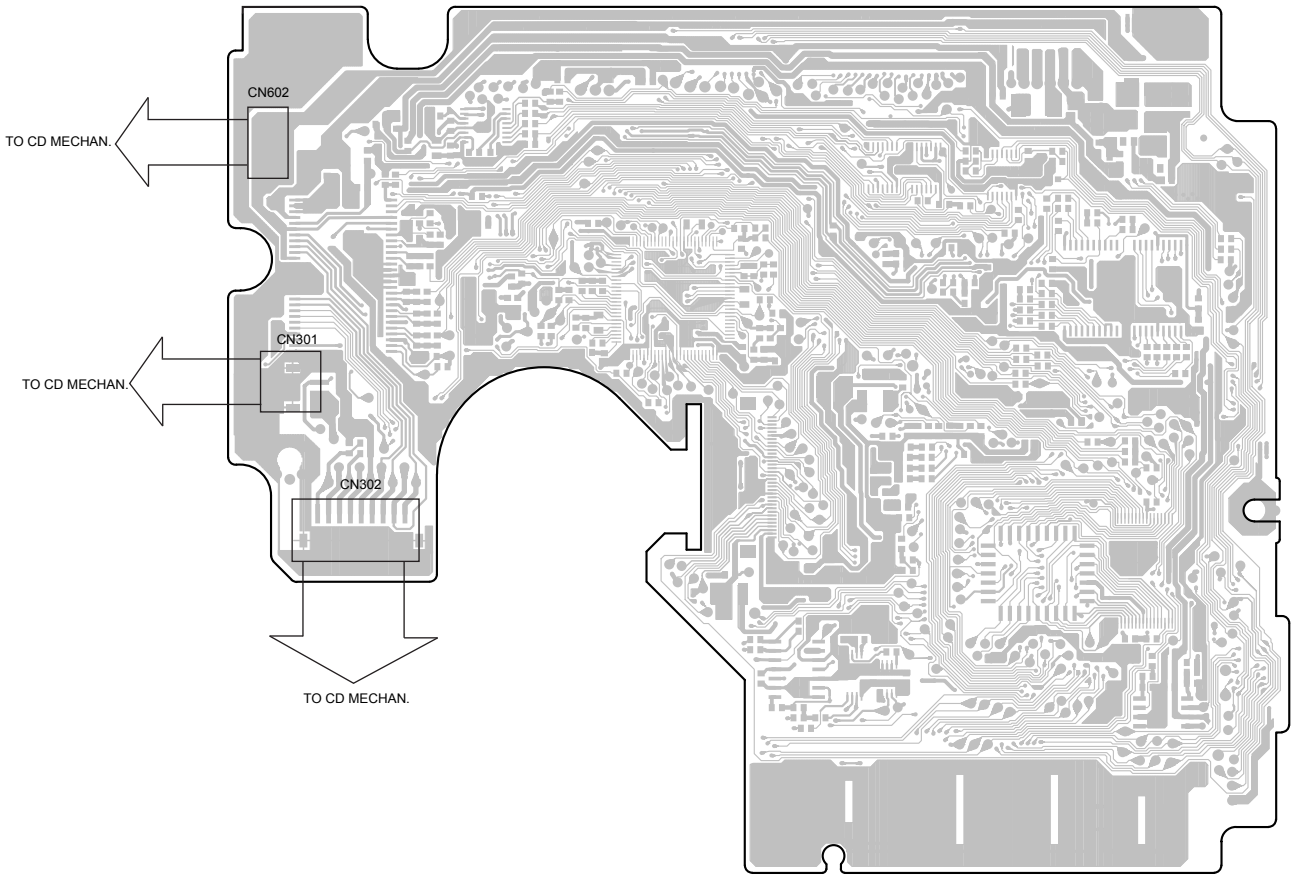
POWER MAIN PCB (CD MECHANISM ASSY) - BOTTOM



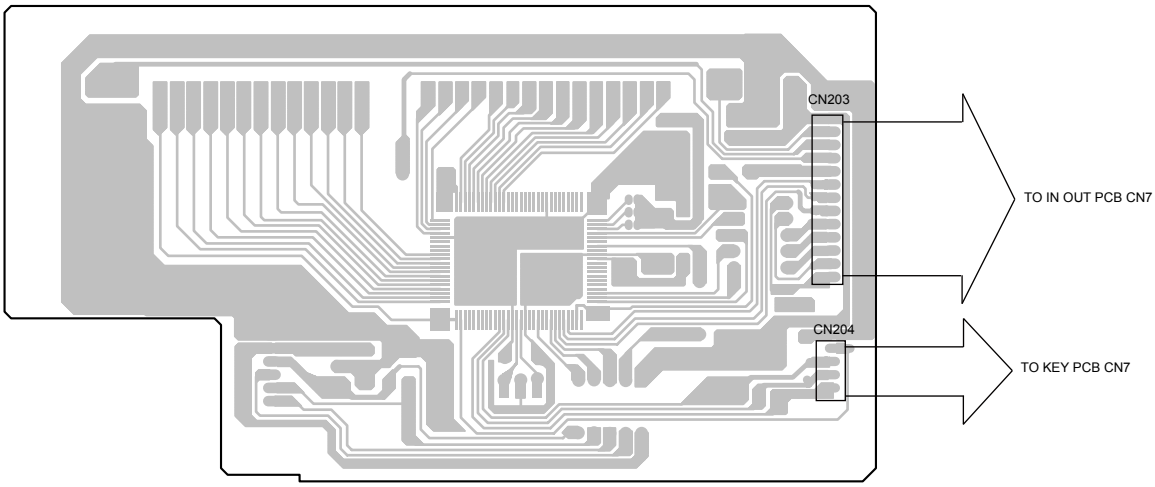
5 WIRING DIAGRAM



POWER MAIN PCB (CD MECHANISM ASSY)



DISPLAY PCB



6 INCLUDED ACCESSORIES

INCLUDED ACCESSORIES

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	77-201RW88000020	INSTRUCTION MANUAL (E/F)	
	45-203840005220	RCA PLUG CORD 2P	
	45-234100000020	OPTICAL CABLE	
	02-17RW88000000	REMOTE CONTROL ASSY	
	51-011150300010	BATTERY 1.5V(SANYO) AA/UM-3	

CD-RW880

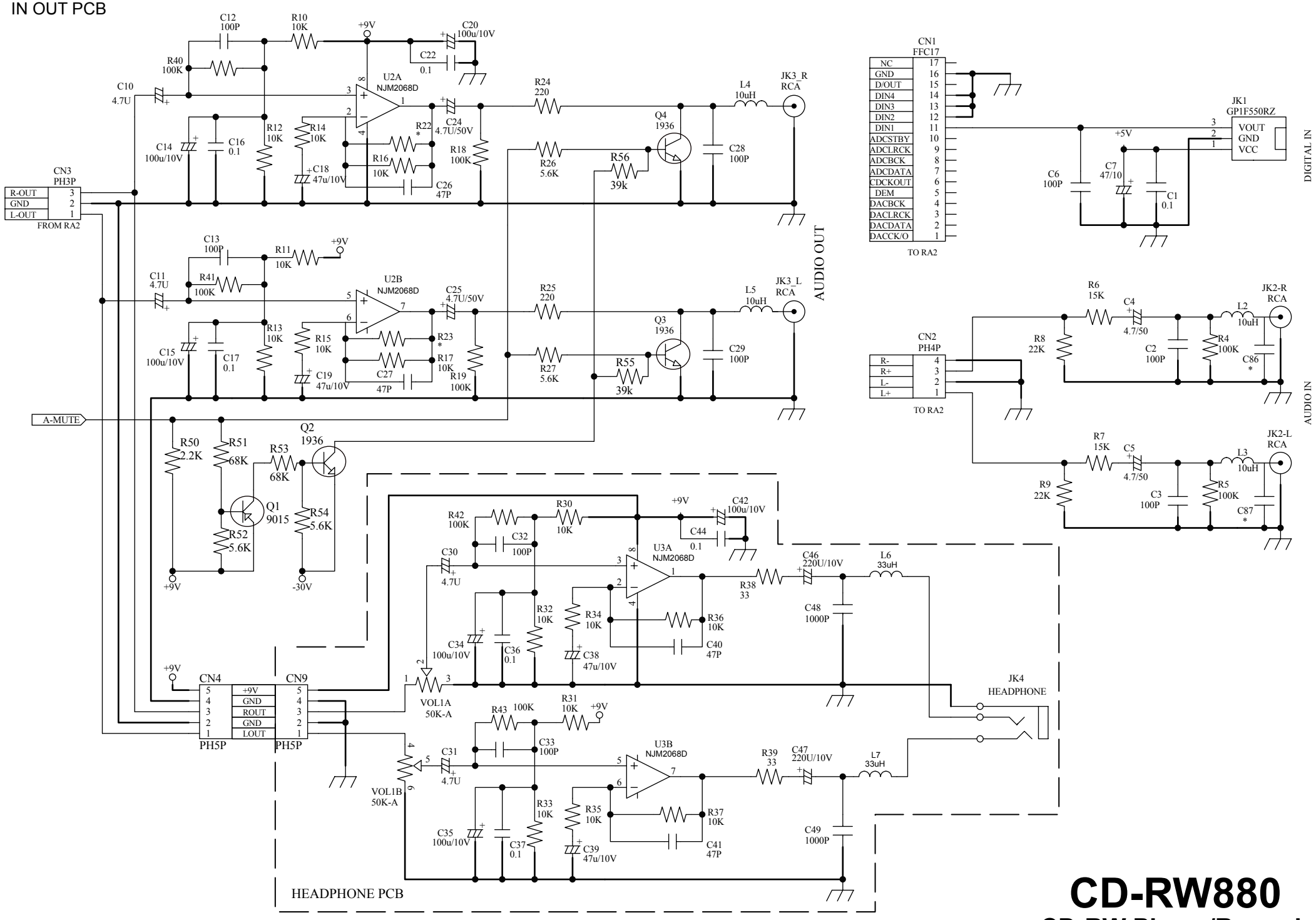
TEAC

TEAC CORPORATION	3-7-3 Nakacho, Musashino-shi, Tokyo 180-8550, Japan Phone:(0422)52-5081
TEAC AMERICA, INC.	7733 Telegraph Road, Montebello, California 90640 Phone: (323)726-0303
TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905)-890-8008
TEAC MEXICO, S.A.De C.V.	Campesinos N°184,Colonia.Granjas Esmeraida, Delegacion Iztapalapa,CP 09810,Mexico DF Phone: (525)-581-5500
TEAC UK LIMITED	Unit 19 & 20, The Courtyards, Hatters Lane, Watford, Hertfordshire, WD18 8TE5, U.K. Phone:(0845) 130-2511
TEAC EUROPE GmbH	Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580
TEAC ITALIANA S.p.A.	Via C, Cantu 9/A, 20092 Cinisello Balsamo, Milano, Italy Phone:02-66010550
TEAC AUSTRALIA PTY., LTD. A.B.N. 80 005 408 462	280 William Street, Melbourne VIC 3000, Australia Phone:(03)9672-2400

AUG 2006

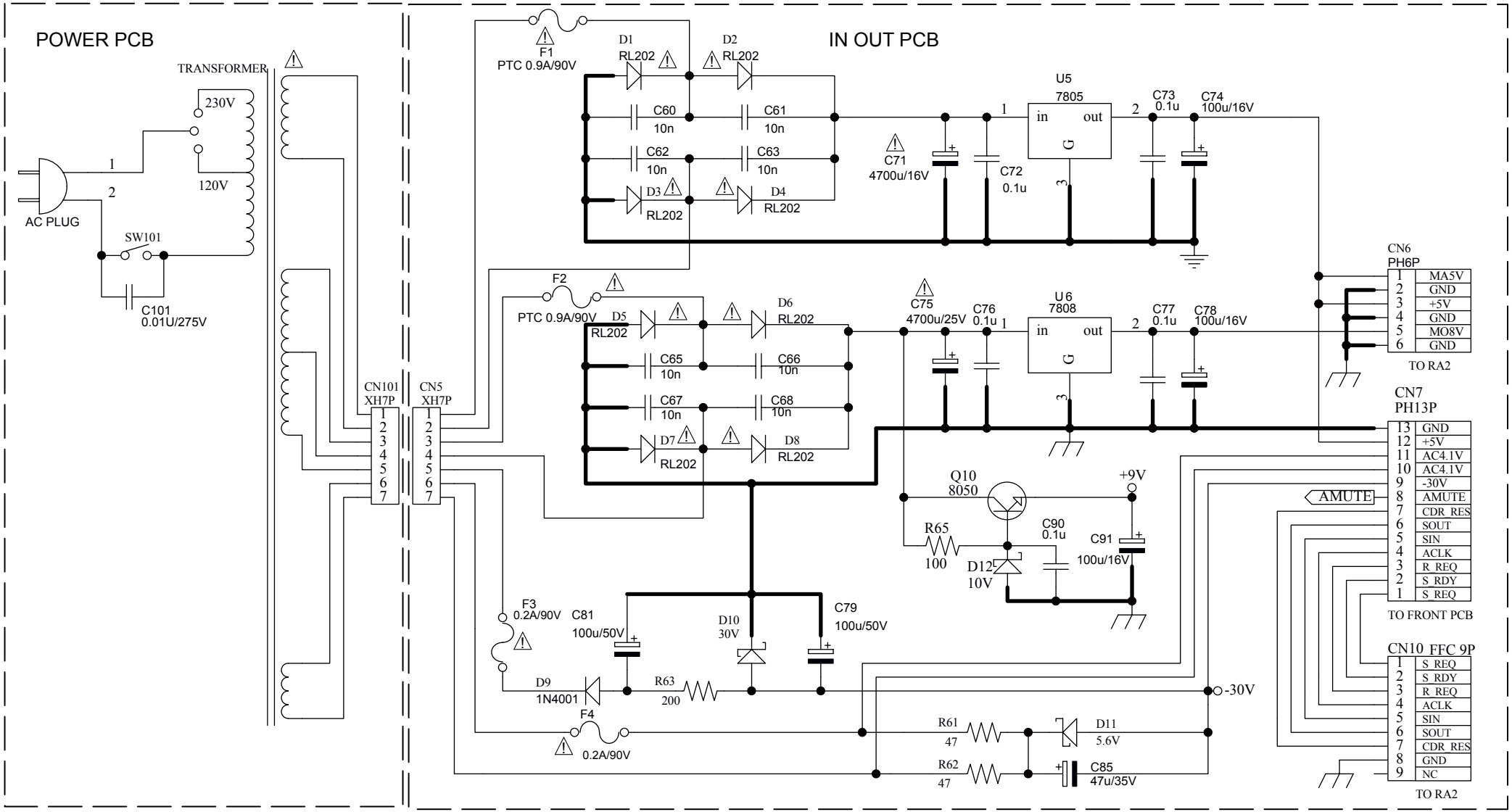
PREPARED IN HONG KONG

IN OUT PCB



CD-RW880

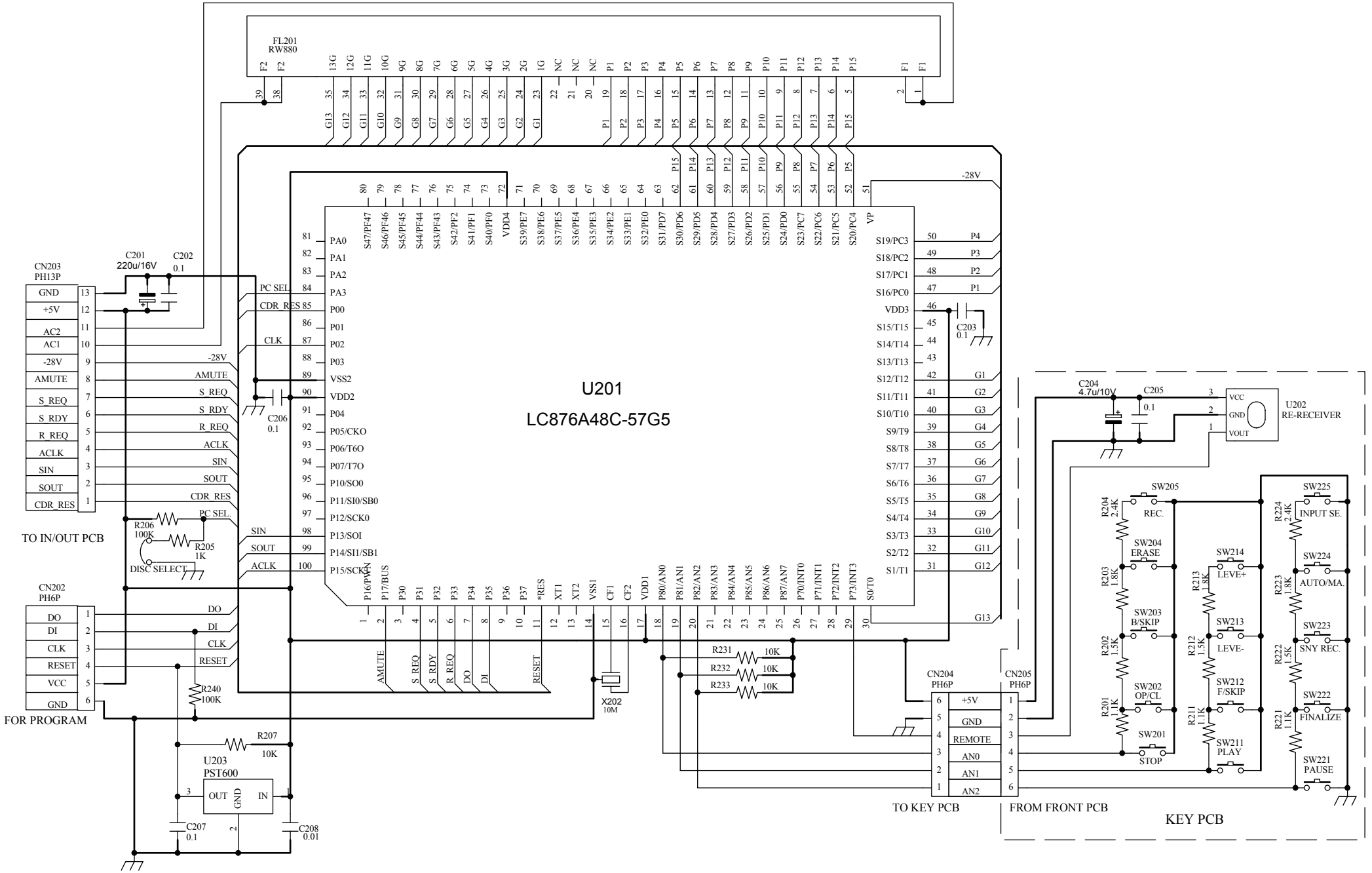
CD-RW Player/Recorder



CD-RW880

CD-RW Player/Recorder

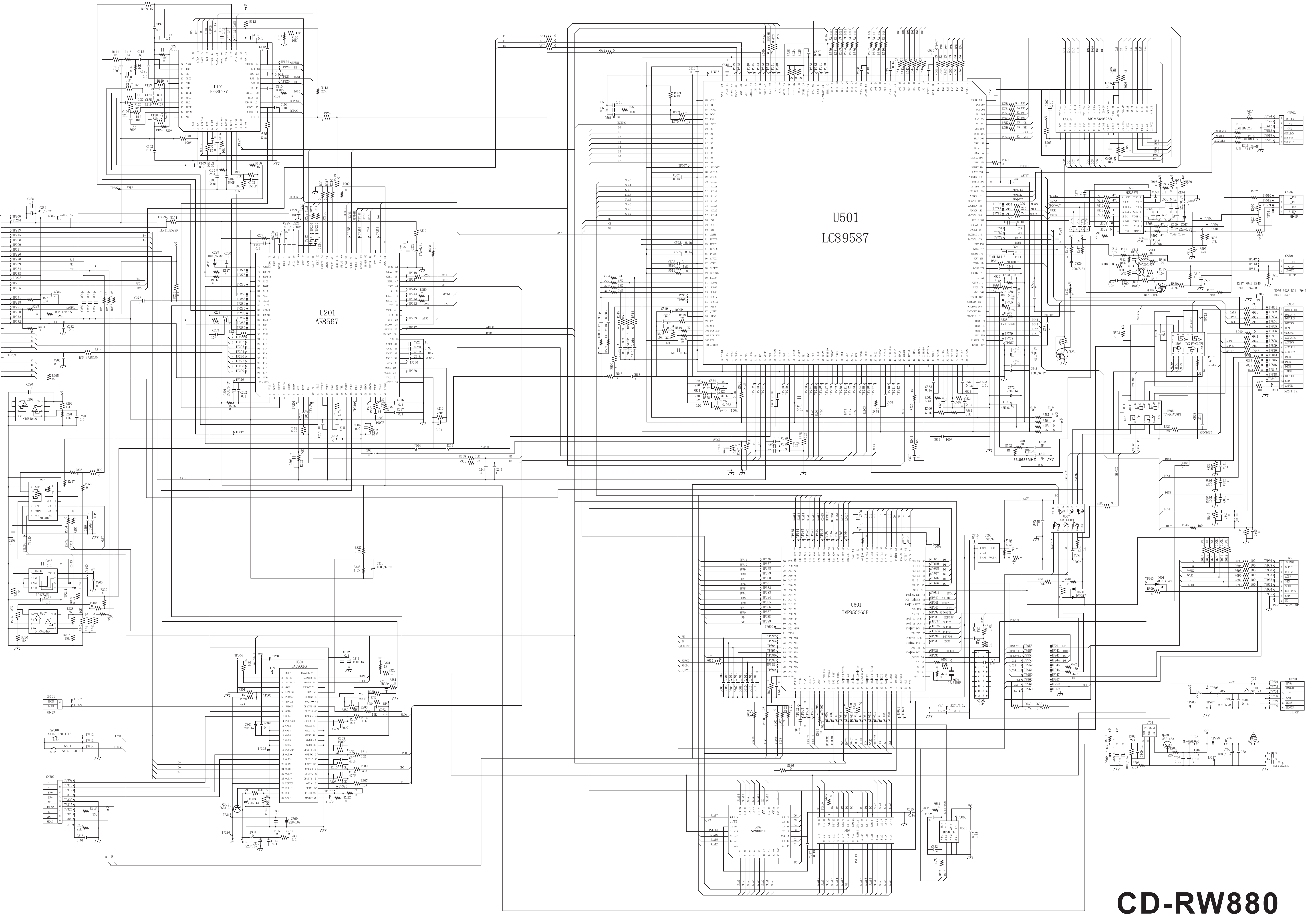
DISPLAY / KEY PCB



CD-RW880

CD-RW Player/Recorder

POWER MAIN PCB (CD MECHANISM ASSY)


U101
BH3802KV
U201
AK8567
U501
LC89587
U504
MSM5416258
U502
AK5353VT
U601
TMP95C265F
U301
BA5960FS
U602
A29002TL
U603
U604
PST597
U605
BR9080F
U507
74VHC14FT
U505
TC74VHC08FT
U506
TC74VHC32FT
U205
AD8402
U206
TC4W53FU
U207
NJM3404AV
U208
NJM3404AV
U701
M5237ML
CN201
SF-W03PDX
CN301
ZR-2P
CN302
ZR-9P
CN501
52271-17P
CN502
PH-4P
CN503
ZR-6P
CN601
52271-9P
CN602
20P
CN701
PH-6P
CN801
PH-3P
X501
33.8688MHZ
X601
22.57MHZ

CD-RW880

CD-RW Player/Recorder